BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : PROVIDING CEMENT CONCRETE ROADS TO YELAHANKA JANATHA LAYOUT AT WARD NO.01

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
						Estimate Cost Rs.	50.00		Lakhs
1	**Removing B.S. slab** of Drain and stacking.(P No.25 / I N 5.32)								
	for Drain	Sqm							
	Cross Road		2	110.00	0.90		198.00		
	Venkatala						**198.00**	65.72	**13012.56**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	Cross Road		1	115.00	0.60	0.50	34.50		
	Venkatala						**34.50**	86.92	**2998.74**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92						-	
	Total	**86.92**							
3	**Refixing stone slabs** of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)								
		Sqm							
			80% of Qty Vide Item No.1				**158.40**	80.56	**12760.70**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
4	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	for Road (Venkatala)	Cum							
	Appaiah house to nagaraj shop		1	105.00	4.50	0.40	189.00		
	Anganawadi Road		1	38.00	4.00	0.40	60.80		
	Jampanna House road		1	15.00	3.50	0.40	21.00		
	Muniswamy (marapa road)		1	35.00	2.00	0.30	21.00		
	Karalapura road		1	35.00	2.50	0.30	26.25		
	Singri narasimha road		1	35.00	2.00	0.40	28.00		
	6th Cross Road (marutinagara)		1	154.00	5.00	0.40	308.00		
	Cross Roads of 3rd Main Road		6	24.00	4.00	0.30	172.80		
							826.85	166.42	**137604.38**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
			Qty Vide Item No.2+4				**861.35**	100.00	**86135.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
	for Road (Venkatala)	Cum							
	Appaiah house to nagaraj shop		1	105.00	4.50	0.15	70.88		
	Anganawadi Road		1	38.00	4.00	0.15	22.80		
	Jampanna House road		1	15.00	3.50	0.15	7.88		
	Muniswamy (marapa road)		1	35.00	2.00	0.15	10.50		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Karalapura road		1	35.00	2.50	0.15	13.13		
	Singri narasimha road		1	35.00	2.00	0.15	10.50		
	6th Cross Road (marutinagara)		1	154.00	5.00	0.15	115.50		
	Cross Roads of 3rd Main Road		6	24.00	4.00	0.15	86.40		
							337.58	1665.26	**562150.14**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for Road (Venkatala)	Cum							
	Appaiah house to nagaraj shop		1	105.00	4.50	0.15	70.88		
	Anganawadi Road		1	38.00	4.00	0.15	22.80		
	Jampanna House road		1	15.00	3.50	0.15	7.88		
	Muniswamy (marapa road)		1	35.00	2.00	0.15	10.50		
	Karalapura road		1	35.00	2.50	0.15	13.13		
	Singri narasimha road		1	35.00	2.00	0.15	10.50		
	6th Cross Road (marutinagara)		1	154.00	5.00	0.15	115.50		
	Cross Roads of 3rd Main Road		6	24.00	4.00	0.15	86.40		
							337.58	5159.02	**1741556.18**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab		***20% of Qty Vide Item No.1***				39.60		
							39.60	2100.00	**83160.00**
	Data Rate	**2100.00**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
9	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for Road (Venkatala)	Cum							
	Appaiah house to nagaraj shop		1	105.00	4.50	0.15	70.88		
	Anganawadi Road		1	38.00	4.00	0.15	22.80		
	Jampanna House road		1	15.00	3.50	0.15	7.88		
	Muniswamy (marapa road)		1	35.00	2.00	0.15	10.50		
	Karalapura road		1	35.00	2.50	0.15	13.13		
	Singri narasimha road		1	35.00	2.00	0.15	10.50		
	6th Cross Road (marutinagara)		1	154.00	5.00	0.15	115.50		
	Cross Roads of 3rd Main Road		6	24.00	4.00	0.15	86.40		
							337.58	6231.74	**2103679.63**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for Road (Venkatala)	Sqm							
	Appaiah house to nagaraj shop		1	105.00	4.50		472.50		
	Anganawadi Road		1	38.00	4.00		152.00		
	Jampanna House road		1	15.00	3.50		52.50		
	Muniswamy (marapa road)		1	35.00	2.00		70.00		
	Karalapura road		1	35.00	2.50		87.50		
	Singri narasimha road		1	35.00	2.00		70.00		
	6th Cross Road (marutinagara)		1	154.00	5.00		770.00		
	Cross Roads of 3rd Main Road		6	24.00	4.00		576.00		
							2250.50	95.40	**214697.70**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
9	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for Road (Venkatala)	Cum							
	Appaiah house to nagaraj shop		1	105.00	4.50	0.15	70.88		
	Anganawadi Road		1	38.00	4.00	0.15	22.80		
	Jampanna House road		1	15.00	3.50	0.15	7.88		
	Muniswamy (marapa road)		1	35.00	2.00	0.15	10.50		
	Karalapura road		1	35.00	2.50	0.15	13.13		
	Singri narasimha road		1	35.00	2.00	0.15	10.50		
	6th Cross Road (marutinagara)		1	154.00	5.00	0.15	115.50		
	Cross Roads of 3rd Main Road		6	24.00	4.00	0.15	86.40		
							337.58	6231.74	**2103679.63**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)							-	
	for Road (Venkatala)	Sqm							
	Appaiah house to nagaraj shop		1	105.00	4.50		472.50		
	Anganawadi Road		1	38.00	4.00		152.00		
	Jampanna House road		1	15.00	3.50		52.50		
	Muniswamy (marapa road)		1	35.00	2.00		70.00		
	Karalapura road		1	35.00	2.50		87.50		
	Singri narasimha road		1	35.00	2.00		70.00		
	6th Cross Road (marutinagara)		1	154.00	5.00		770.00		
	Cross Roads of 3rd Main Road		6	24.00	4.00		576.00		
							2250.50	95.40	**214697.70**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
11	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
	for Road (Venkatala)	m							
	Appaiah house to nagaraj shop		18	4.50			78.75		
	Anganawadi Road		6	4.00			25.33		
	Jampanna House road		3	3.50			8.75		
	Muniswamy (marapa road)		6	2.00			11.67		
	Karalapura road		6	2.50			14.58		
	Singri narasimha road		6	2.00			11.67		
	6th Cross Road (marutinagara)		26	5.00			128.33		
	Cross Roads of 3rd Main Road		12	4.00			48.00		
							327.08	121.90	**39871.46**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
12	Miscellaneous and unforeseen charges	LS							2374.00
							Grand Total Amount		5000000.00

(Rupees Fifty Lakhs Only)

RTIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.01

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P
9/X/17

Administrative Approval

Accorded For Rs. 50.00 lakhs
Head of A/C P-1878
CER NO :5/17-18 Dt: 09/10/2017

E.E, (Project) 9/X/17

Technical Sanction

Accorded For Rs. 50.00 lakhs
Head of A/C P-1878
CER NO :241 10/10/17

[illegible] CE (YNK)